**Creating a Screen Chomp about Enzymes**

Ms. Ottolini, AP Biology

**Screen Chomp Instructions:**

-Open the Screen Chomp App on the IPAD.

-Use the pens to draw a diagram or graph before beginning your recording.

-When you are ready to start your recording, hit the record button.

-Try to keep your video under 2 minutes if possible!

-Do not say your full name (ex: John Smith) at any point during the video, as these will be uploaded to Ms. Ottolini’s Youtube Channel.

-Speak clearly to explain what you are drawing. You should see a microphone icon with a volume indicator in the upper right hand corner while you are speaking.

-When you are finished, hit the stop button (looks like a white square in the bottom right corner).

-Your video should open and replay on the screen. Once you have watched it to make sure there are no errors, hit the share button in the bottom right corner.

-Next to the green creature in the upper left corner, you will see a stack of notecards. Click the stack of notecards and you should see a Screen Chomp File with today’s date. Click to open the file and check to make sure it plays correctly.

-Click the blue “Share” button at the bottom of the screen and then click “Copy Link.”

-Open your email in Safari. Send an email with your topic (ex: Osmosis) and names (ex: Kate and Andrew) in the subject line to [ottolike@pwcs.edu](mailto:ottolike@pwcs.edu) . Paste the link to your video by tapping and holding your finger in the text box of the email. If you tap and hold, you will see a gray “paste” icon pop up by your finger. Click this and the link to your video should appear.

-Once you have sent your email, make sure to log out of your email account before returning your IPAD.

-IN CASE THE WIFI IS NOT WORKING AND YOU CANNOT UPLOAD YOUR VIDEO… make sure to fill in the “Planning Worksheet” on the back of this page so I can give you a grade!

**Enzyme Requirements:** Your group will be assigned a particular topic that relates to enzyme structure or function. The list of topics is given below.

1) Compare an endergonic reaction with an exergonic reaction. (You will need to draw energy graphs for this topic.)

2) Describe the structure of ATP, and explain how energy is released from ATP.

3) Explain how enzymes speed up reactions. (You will need to draw an energy graph for an exergonic reaction without an enzyme and compare it with an energy graph for an exergonic reaction with an enzyme.)

4) Show how an enzyme matches up with a substrate and converts the substrate into products. (Make sure to identify the enzyme, active site, substrate(s), enzyme-substrate complex, and product(s) in your picture.)

5) Describe how the efficiency of an enzyme is affected by changing the temperature or pH. (You will need to draw graphs for this topic.)

6) Explain how competitive inhibition differs from noncompetitive inhibition.

7) Explain how negative feedback differs from positive feedback.

**Rubric:** You will be evaluated using the following list of requirements.

1) If you have included a diagram, all important parts of the diagram are included and labeled.

If you have included a graph, the graph must have labeled axes and show the correct trend(s). (Don’t worry about including titles for your graphs.)

**\_\_\_\_\_/2**

2) You have thoroughly and accurately answered the question given in the topic description.

**\_\_\_\_\_/2**

3) You have clearly referenced parts of your diagram or graph in your discussion.

**\_\_\_\_\_/1**

**Total: \_\_\_\_/5**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Screen Chomp Planning Worksheet**

1) Draw the diagram or graph you plan to include in your screen chomp in the space given below.

2) Provide a detailed answer to the question given in the topic description in the space below. Identify which group member will “say” each part. Make sure you directly discuss aspects of your diagram or graph.